



S Series

IP9165-LPR-V2 (9-50 mm)

2MP License Plate Recognition
Camera



Technical Specifications

System Information

CPU	Multimedia SoC (System-on-Chip)
Flash	8 GB eMMC
RAM	2 GB

Camera Specifications

Image Sensor	1/2" Progressive CMOS
Max. Resolution	1920x1080
Lens Type	Vari-focal, Remote Back Focus, i-CS
Focal Length	f = 9 ~ 50 mm
Aperture	F1.5 ~ F1.6
Iris Type	DC-iris, P-iris, i-CS
Field of View	8.3° ~ 42.8° (Horizontal) 4.7° ~ 24.3° (Vertical) 9.46° ~ 48.9° (Diagonal)
Shutter Time	1/5 sec. to 1/32,000 sec.
WDR Technology	WDR Pro II
Day/Night	Yes
Removable IR-cut filter	Yes (Headlight filter design for Anti-Glare)
Minimum Illumination	0.01 lux @ F1.5
Pan/Tilt/Zoom Functionalities	ePTZ: 48x digital zoom (4x on IE plug-in, 12x built in)
Storage	Built-in 32GB MicroSD card for LPR images Seamless Recording to MicroSD/SDHC/SDXC card and recording to network-attached storage (NAS)

Built-in Installation Aids	Remote focus, Remote zoom, BNC (CVBS), Micro USB (for additional USB Wireless Adapter)
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Video	
Compression	H.265, H.264, MJPEG
Maximum Frame Rate	60 fps @ 1920x1080 (WDR Pro) 30 fps @ 1920x1080 (WDR Pro II)
Maximum Streams	3 simultaneous streams (Up to 8 configurable profiles)
Main Stream	30 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9); 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
2nd Stream	30 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9); 60 fps @ 1920x1080, 1600x904, 1360x768, 1280x720, 640x360 (16:9)
3rd Stream	30 fps @ 1280x720, 640x360 (16:9); 60 fps @ 1280x720, 640x360 (16:9)
S/N Ratio	66.2 dB
Dynamic Range	140 dB
Video Streaming	Adjustable resolution, quality and constrained bit rate control, Smart Stream III
Image Settings	<p>General settings video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings</p> <p>Illuminators illuminators, anti-overexposure</p> <p>Image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR, EIS, scene mode (parking lot, street, highway)</p> <p>Exposure BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR</p> <p>Focus zoom, Remote focus(i-CS), Remote back focus</p> <p>Privacy mask Scheduled profile settings</p>

Audio	
Audio Capability	Two-way Audio
Compression	G.711, G.726, MPEG-2 AAC-LC
Interface	External microphone input External line output

Network	
Users	Live viewing for up to 10 clients
Security	Access list, Account block, Audit log, Session timeout, Configurable password strength protection, Digest authentication, CSRF protection, HTTPS, IEEE 802.1x, Secure boot, Signed firmware, Trend Micro IoT Security (brute force attack event, cyberattack event), User access log, User account management
Protocols	802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SFTP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP
Interface	10BASE-T/100BASE-TX/1000BASE-T Ethernet (RJ-45) *It is highly recommended to use standard CAT5e & CAT6 cables which are compliant with the 3P/ETL standard.
ONVIF	Profile G, S, T supported, specification available at www.onvif.org

AI Analytics	
Compute Capability	SoC with built-in hardware deep learning accelerator
Application available with license	VIVOTEK ANPR

Solution Integration	
Embedded Software	VIVOTEK ANPR Gen 2
VADP Package	Trend Micro IoT Security (Default 3 years)

Alarm and Event	
Event Trigger	<p>Camera: Motion detection, Camera tampering detection, Audio detection, Digital input, Manual trigger, Periodical trigger, System boot, Recording notification, SD card life expectancy, Shock detection, Cybersecurity events (brute force attack event, cyberattack event)</p> <p>ANPR Software: Socket client, Socket server, ONVIF event, Digital output trigger, FTP, HTTP, Wiegand protocol</p>
Event Action	<p>Event notification via email, HTTP, FTP/SFTP, NAS server, SD card, digital output, audio clip, camera link</p> <p>File upload via email, HTTP, FTP/SFTP, NAS server, SD card</p>

General	
Supported P/T/Z	DynaDome/SmartDome, Pelco D, Pelco P, Lilin, Samsung scc643 and customized
Connectors	<p>RJ-45 cable connector for 10/100/1000 Mbps Network/PoE connection</p> <p>Audio input</p> <p>Audio output</p> <p>AC 24V power input *1</p> <p>DC 12V power input *1</p> <p>Digital input *2</p> <p>Digital output *2 (DO+: 12V, 50mA; DO-: 30V, Open Drain, 1A)</p> <p>RS-485 *1</p> <p>BNC *1</p>
LED Indicator	System power and status indicator
Power Input	AC 24V, DC 12V, IEEE 802.3af PoE Class 0 (Power Redundancy)
Power Consumption	<p>DC 12V: Max. 8.88W</p> <p>AC 24V: Max. 17W</p> <p>PoE: Max. 10W</p>
Dimensions	<p>155 (D) x 70 (W) x 61 (H) mm (w/o lens)</p> <p>263 (D) x 78 (W) x 84 (H) mm (w/ lens)</p>
Weight	<p>680 g (w/o lens)</p> <p>970 g (w/ lens)</p>
Certifications	CE, LVD, FCC Class B, VCCI, C-Tick, UL/CUL, BIS, BSMI
Operating Temperature	<p>Starting Temperature: 0°C ~ 50°C (32°F ~ 122°F)</p> <p>Working Temperature: -10°C ~ 60°C (14°F ~ 140°F)</p>
Humidity	90% RH (non-condensing)
Warranty	36 months

System Requirements	
Operating System	<p>Microsoft Windows 8/7</p> <p>Mac 10.12 (Chrome only)</p>

Web Browser	Chrome 58.0 or above Internet Explorer 10/11
Other Players	VLC: 1.1.11 or above

Included Accessories

Packing Contents	Quick installation guide, lens
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